

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P553941

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-UNV-82-86-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P553941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-1HI-35-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

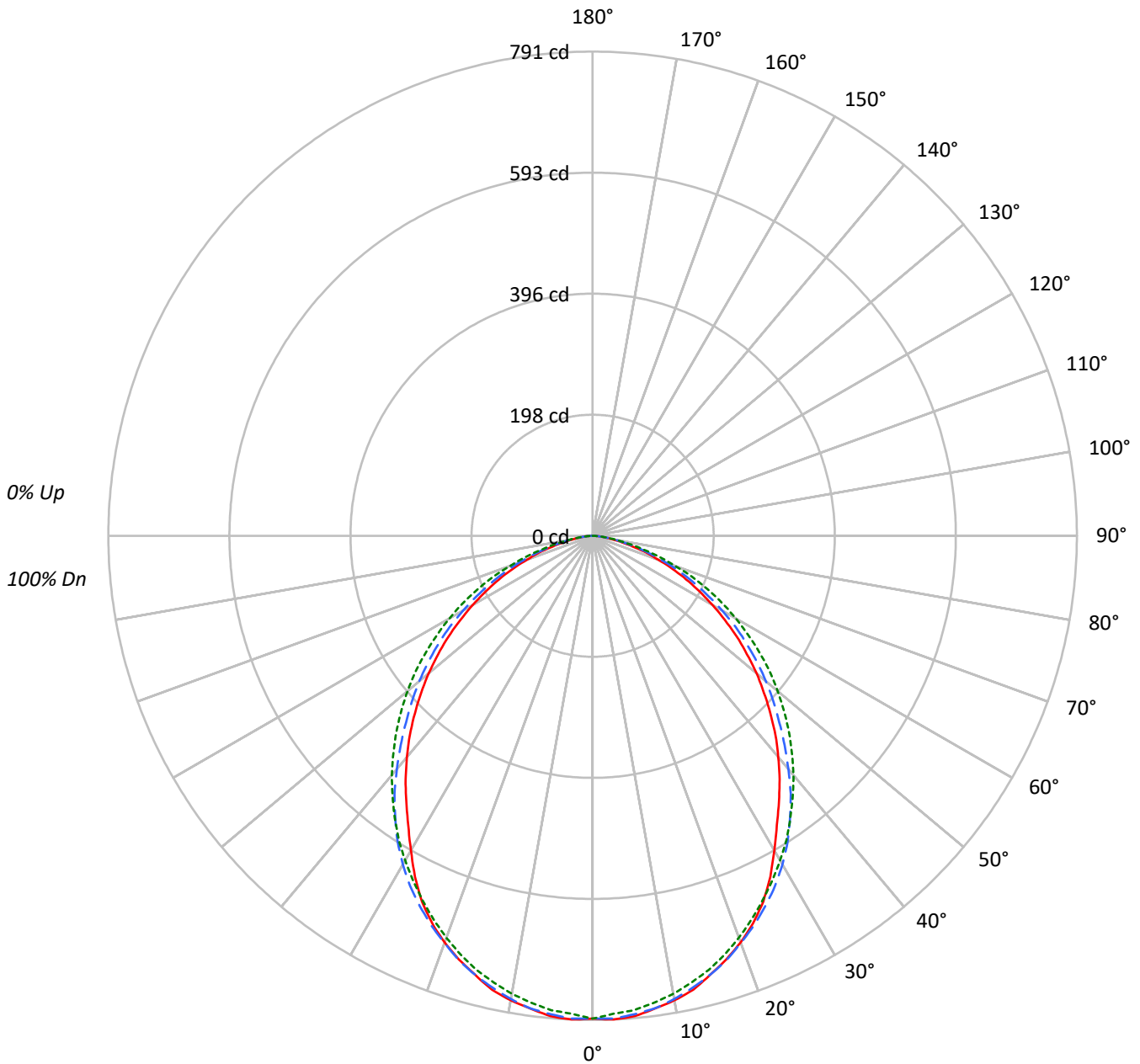
Lumens per Lamp: N/A
Luminaire Lumens: 1824.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4245	4245	4245
5°	4257	4239	4203
10°	4212	4200	4152
15°	4137	4137	4090
20°	4049	4054	4002
25°	3916	3964	3901
30°	3688	3853	3806
35°	3484	3694	3700
40°	3315	3494	3585
45°	3125	3282	3451
50°	2925	3093	3304
55°	2699	2878	3125
60°	2430	2626	2906
65°	2146	2334	2644
70°	1788	1989	2245
75°	1406	1589	1759
80°	1004	1119	1240
85°	655	655	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	4.1
10°-20°	208.6	11.4
20°-30°	304.9	16.7
30°-40°	346.1	19.0
40°-50°	334.1	18.3
50°-60°	275.6	15.1
60°-70°	183.5	10.1
70°-80°	82.1	4.5
80°-90°	14.7	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	587.8	32.2
0°-40°	933.9	51.2
0°-60°	1543.6	84.6
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	788	788	785	780	778	75
15°	742	744	742	739	734	209
25°	659	665	668	663	657	302
35°	530	538	562	565	563	332
45°	411	418	431	451	453	317
55°	288	292	307	324	333	257
65°	168	173	183	196	208	167
75°	68	71	76	80	85	74
85°	11	11	11	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.8	788.8	788.8	788.8	788.8
2.5°	791.0	791.3	789.4	784.6	781.6
5°	787.9	787.6	784.6	780.3	777.9
7.5°	779.1	779.7	778.8	772.8	769.4
10°	770.7	771.0	768.5	763.7	759.7
12.5°	759.7	759.4	756.1	753.7	747.3
15°	742.5	744.3	742.5	739.1	734.0
17.5°	725.8	725.8	727.0	721.3	717.3
20°	707.0	707.9	707.9	703.4	698.8
22.5°	685.2	687.9	688.8	684.0	678.5
25°	659.4	664.6	667.6	662.8	657.0
27.5°	628.2	636.1	645.2	641.6	635.2
30°	593.4	604.9	620.0	617.0	612.5
32.5°	560.3	571.9	592.8	591.5	589.1
35°	530.3	537.6	562.2	565.2	563.1
37.5°	501.8	508.5	531.5	538.5	536.7
40°	471.8	479.1	497.3	509.7	510.3
42.5°	442.1	449.1	464.0	481.8	481.8
45°	410.6	417.6	431.2	450.9	453.4
47.5°	379.7	387.0	400.3	420.0	424.0
50°	349.4	356.1	369.4	388.5	394.6
52.5°	317.9	325.2	338.2	355.8	364.6
55°	287.6	292.4	306.7	323.7	333.0
57.5°	256.1	260.6	276.7	291.2	300.9
60°	225.8	231.5	244.0	258.8	270.0
62.5°	196.7	202.7	213.3	226.4	239.1
65°	168.5	173.0	183.3	196.4	207.6
67.5°	141.2	145.2	155.5	164.6	176.4
70°	113.6	118.8	126.4	135.2	142.7
72.5°	91.5	93.6	100.0	106.4	114.2
75°	67.6	71.2	76.4	80.0	84.6
77.5°	48.5	50.6	53.6	56.7	60.9
80°	32.4	33.3	36.1	36.7	40.0
82.5°	19.7	20.3	20.9	21.2	22.4
85°	10.6	10.6	10.6	10.0	10.0
87.5°	6.1	6.1	5.2	4.2	3.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)